Hardik Sachan

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EXPERIENCE

Logistics Coordinators | Ontario, CA (Remote)   Apr 2023 — Apr 2024

Tech Head   *Aug 2023 — Apr 2024*
Full Stack Developer   *Apr 2023 — Aug 2023*

- Improved backend **request throughput by 58%** and **average response time by 32%** by re-architecting the backend from a monolithic NodeJS environment to a modular Go solution with PostgreSQL and gRPC.
- **Reduced First Contentful Paint (FCP) by 40%** and **Time to Interactive (TTI) by 29%** by migrating the frontend from a React SPA to a Next.js resulting in a significantly faster and responsive user experience.
- Enabled continuous integration and continuous delivery (CI/CD) with automated deployments using Kubernetes, streamlining the development process and **reducing deployment time by 40%** for FMS.
- **Reduced** Driver's Qualification File **generation time by 80%** by re-writing the service from Puppeteer on the backend to a Next.js app utilizing the router and user-prompted printing.
- **Increased development team velocity** by implementing Agile methodologies and cross-functional collaboration between a team of designers and developers, ensuring on-time and on-budget delivery of FMS.

PROJECTS

Server Side Utilities   Github

This project offers a suite of robust libraries designed to enhance various functionalities:

- **xmessage:** Delivers asynchronous message handling with **idempotent inbox** and **transactional outbox**, ensuring reliable communication.
- **xretry:** Implements seamless retry mechanisms for operations, improving resilience and fault tolerance.
- **xerrors:** Enhances error handling with advanced features for better error management and debugging.
- **xlog:** Provides comprehensive logging capabilities to monitor and track application events effectively.
- **xtoken:** Facilitates secure token generation and management for authentication and authorization processes.
- **xhash:** Offers versatile hashing functionalities, including bcrypt, for secure data hashing needs.
- **Technologies Used — Go, PostgreSQL, RabbitMQ**

Identity Reconciliation API   Github

- Developed an identity reconciliation service for an e-commerce platform.
- Designed to identify and link customer purchases across different contact information.
- **Technologies Used — NodeJS, PostgreSQL, REST, HTTP**

Autonomous Driving System | B.Tech Minor Project   Presentation   Report   Github

- Performed semantic segmentation of RGB images for lane identification under varying conditions.
- Employed Proximal Policy Optimization (PPO) for lane following within the CARLA simulator environment.

EDUCATION

2021 - 2025	**National Institute of Technology Delhi** — B. Tech, EEE	7.77/10
2020 - 2021	**Delhi Public School** — Class XII	98.8%

SKILLS

Languages and Databases — Go, Typescript, Rust, C++, Python, Kotlin, Java, PostgreSQL, MongoDB

Web Technologies — ReactJS, NextJS, Drizzle, Express JS, Chakra UI, Tailwind CSS, Tanstack Query

DevOps — Docker, Kubernetes, Git, Argo CD, Crossplane, Prometheus, Linux

Android — Android SDK, Jetpack Compose, SQL Delight, Dagger Hilt, Jetpack Datastore

Software Architecture — Hexagonal Architecture, Test Driven Development, Domain Driven Design

ARTICLES

Introduction to appwrite cloud functions with Android and Kotlin | Oct 21, 2021	Link
Getting Started with Linux Terminal | Dec 28, 2021	Link
Introduction to Android and Kotlin | Feb 07, 2023	Link